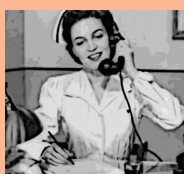


Ruck, Maul, Scrum

CSM Men's Rugby See page 9

Ask Mabel:

Student health questions answered - see page 5



TECH BREAK

See page 6

Turning waste into energy

Tim Weilert
Content Manager

How often do food scraps and other calorie-rich substances go to waste? What role have microscopic organisms played in industrial history, and how can the global society achieve a universal standard of living? Nick Chambers, of Living Arts Systems, came to campus last Thursday to help answer these questions. The talk was sponsored by the Humanitarian Engineering department.

Chambers analyzed human history as a system and came to the conclusion that equilibrium conditions are ideal for stability. "It seems to be our history that if a nation or culture has something that another nation does not have, there is a dis-equilibrium, which will result in strife," said Chambers, "when equilibrium occurs, things tend to settle, and biogas digesters may lead to equilibrium."

Biogas digesters, according to Chambers, are microscopic organisms that live without oxygen, eat organic matter, and produce a variety of chemicals. Among the by-products of these digesters are CH₄ (methane), CO₂, H₂S, Hydrogen and other biogases. "These methane producing bacteria, microbes that produce biogases, were some of the first life forms on earth. They created the atmosphere, which was mostly methane, and had very little oxygen," said Chambers, "any time there is organic material without oxygen, these amazing creatures

develop."

Chambers has not sought to create a new technology for harnessing biogas, but instead has researched how other countries have used biogases. His hope is to make biogas a part of the American energy vocabulary. He discussed, in great detail, the systems already in use in China, India and parts of Europe. Chambers stated his goals when he said, "We want to transpose Asian village technology for the American marketplace and American culture. In Europe this is huge, and biogas is commonplace." He proceeded to give specific examples of how Germany has developed biogas systems.

American usage was not Chambers only goal. He saw applications for impoverished nations. "Biogas digesters could be a way to realize the 'solar blanket' we're surrounded by. There is so much energy coming in, we just have to look around and use what we have," said Chambers, "Someone in Afghanistan, or Kenya, or Uganda, can do the same thing. So we approach a standard of living that we can share and expect everyone else to have with respect to food production and energy."

For centuries, the primary source



Understanding equilibrium and human systems.

of energy for biogas digesters has been manure and other processed organic material. However, Chambers has dedicated a large portion of his research to finding different high-calorie alternatives that function more efficiently. According to Chambers, "Manures have already been digested once, they have less energy to give up. Spoiled grains, rhizomes, water weeds, glycerol (a by-product of biodiesel), brewery waste, potato

waste, vegetable oil and kitchen scraps cause high gas yields." Perhaps most importantly, Chambers realized that biogases create new avenues for renewability. Not only do these processes produce valuable gas and fertilizer, but they also cut down on waste. "We are squeezing value out of things that are right under our nose right now. If you have livestock, you are already managing that manure. If you have a cafeteria, you are already throwing out that food waste," said Chambers, "We can easily implement this into systems we already have, with feed-stock strings we already have, and get value that we weren't even realizing."

SQUIDs and fuel cells

An unconventional relationship: MME seminar

Jason Fish
Content Manager

"The nice thing about magnetism is you never know what you'll find," said Dr. Jim O'Brien, Senior Applications Scientist for Quantum Design, a magnetometry company out of San Diego, California. "You can get some interesting properties."

Dr. O'Brien visited Colorado School of Mines as the speaker for the weekly Metallurgical and Materials Engineering (MME) department seminar. His talk covered the application of magnetometry (measurement of magnetic fields) in the material properties of solid oxide fuel cells (SOFCs). "We're very active in materials characterization," said Dr. O'Brien.

Quantum Design uses Superconducting QUantum Interference Devices (SQUIDs) as the backbone of their analysis equipment. "These

[machines] are our claim to fame," said Dr. O'Brien.

When a magnetic field interacts with tiny copper coils in the device, a current is produced and translated into a signal for the analysis software. Dr. O'Brien passed several SQUIDs around the room. Each was embedded in a company lapel pin, appearing as shiny flat squares less than a square inch in size.

SQUIDs can be used to study thermodynamic properties as well as the strength of magnetic fields. According to Dr. O'Brien, they are the base standard for sensing small fields; there are no better devices than these.

Quantum Design's instruments rely on liquid helium to cool the SQUIDs into the range of 1.5 - 4 K, optimizing detection near absolute zero. "I know Colorado is cold compared to San Diego, but, seriously, this is really cold," said Dr. O'Brien.

Under these extreme conditions, low frequency fields can be easily observed. "When you get into such cold temperatures, you can really pick out these magnetic characteristics," said Dr. O'Brien.

Relating this information background to SOFC technology, Dr. O'Brien focused the remainder of his talk on a cooperative research agreement with Dr. Grover Coors (direct relation to the brewing family). The latter recently approached Quantum Design with fuel cell samples to study.

These test materials came from a mainstream SOFC type, where the anode is composed of nickel oxide (NiO) and the electrolyte of yttria-stabilized zirconia (YSZ). According to Dr. O'Brien, NiO has unique magnetic properties, the Ni²⁺ ions even more so, as it interacts with the YSZ.

SEE "MAGNETOMETRY" PAGE 3

Dr. Nyikos answers ASCSM's questions

Patrick Beseda
Staff Writer

The Associated Students of the Colorado School of Mines (ASCSM) meeting last Thursday represented a rare opportunity for the student population at Mines. Dr. Michael Nyikos, Chairman of the Colorado School of Mines Board of Trustees, attended the meeting to speak to students about the Board and to answer questions from all interested. "It's a high honor to be on this Board," said Dr. Nyikos in his opening remarks. He spoke to the audience about his background, and the floor was opened to questions.

A member of the Board since 2002, Dr. Nyikos provided valuable answers to students' concerns. There was a question raised regarding the Board of Trustees' responsibilities. "We manage and govern the institution," replied Nyikos, "It's easier to explain what we don't do." He went on to say that the Board does not govern the curriculum, course work, or graduation requirements. Legal matters and financial responsibility are the most notable of the Board's responsibilities.

Nyikos spoke about the Board's strategic plan for the future of the school. The Board of Trustees has laid out several goals for CSM in the coming years. The Board plans to move enrollment from 4500 to 7000 students in the next four years. The plan also contains construction and renovation of several campus buildings. Nyikos commented on the growth of the school, "We must grow the institution, but the biggest challenge is keeping the same level of quality, maintaining what's here and extending that forward."

One student representative asked Nyikos about the possible privatization of CSM. "We want to get as close to that as possible, to maximize financial support and minimize regulation." CSM is currently a public

institution and becoming a private institution would mean the loss of state funding. "We receive less than 10% of our budget from the state, but we can't just throw that away." Dr. Nyikos then commented on the outside funding the school receives; "We are on our own, and we must act that way... We are very well supported by alumni and the industries that the school serves."

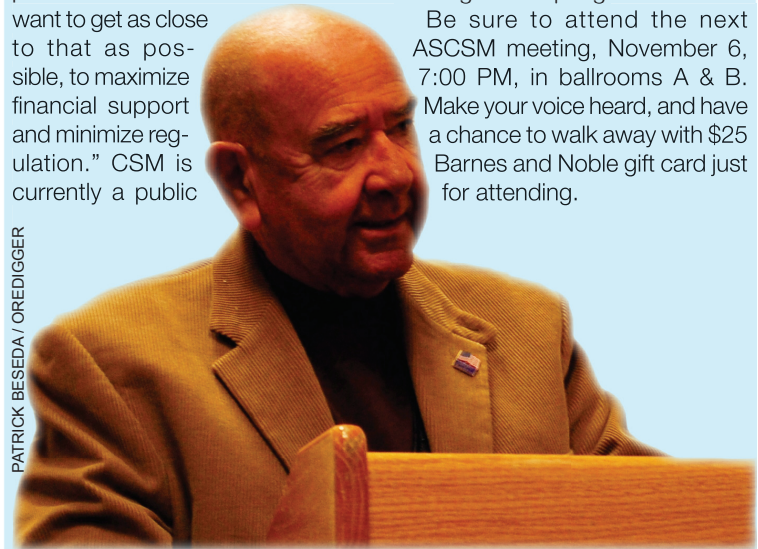
Another student questioned the Board's plans for the academic future of CSM, whether there was a possibility of expanding majors to include liberal arts programs. "I hope not," Nyikos responded. "That may sound harsh, and it is harsh. This school should never forget its roots." Dr. Nyikos is concerned that if the school starts to broaden its offerings, it will lose its focus and integrity as a specialized institution of energy, mineral and materials sciences and engineering.

Dr. Nyikos was applauded by the audience and ASCSM members, and the meeting resumed. Anant Pradhan, Vice President of ASCSM, reported that the Golden City Council has noted ASCSM's concerns about the safety of transportation to and from campus and has begun moving to improve the situation. Class officers gave reports and announced events they plan to hold later in the semester.

Two new members of ASCSM were appointed by the council. Rambert Nahm and Alec Westerman were appointed to the recently vacated positions of At-Large Institution and At-Large Faculty.

Derek Morgan, ASCSM Faculty Advisor, made a few announcements, including the installation of a new LCD marquee to be completed over Thanksgiving break, and the possibility of an Einstein's Bagels franchise opening in the CTLM building in the spring.

Be sure to attend the next ASCSM meeting, November 6, 7:00 PM, in ballrooms A & B. Make your voice heard, and have a chance to walk away with \$25 Barnes and Noble gift card just for attending.



Board of Trustees chairman. Dr. Nyikos speaks to ASCSM.

PATRICK BESEDA / ORE DIGGER

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Scientific discoveries this week

Abdullah Ahmed, Asst. Business Manager

USA/Alaska: An unprecedented study documented by the Alaska Science Center has tracked several bar-tailed Godwits birds in their migration from Alaska to New Zealand. A female Godwit flew nonstop on the nearly 12,000 kilometer trip in eight days without food, water or rest, breaking every aviation record ever documented. Using light tracking devices attached to the legs of the birds, scientists indicate that Godwits begin their flights when the wind is in the right condition.

China: Erasing memories is possible. Scientists at the East China Normal University with help from the Medical College of Georgia have released a study that proves memories are not fixed. The scientists were successfully able to erase a traumatic memory from an engineered mouse. The study indicates that memories are recalled when certain chemicals and enzymes change connections between neurons. If one enzyme that relates to a certain memory is removed or blocked, that memory is erased. The actual, physical process of memory recollection is still a mystery.

Australia: Bees can count! Researchers at the University of Queensland have discovered that bees are able to count up to four. Using a special experiment with four food stripes placed in a tunnel, the bees learned to visit the stripes in the correct order along the tunnel. With sesame seed sized brains, however, bees are not able to count past four.

USA/Maryland: A recent survey of death certificates in the United States shows that suicide rates among middle aged, white males and females have increased between 1999 and 2005, a 2.7 percent rise per year for males vs. 3.9 percent increase for females. The study, conducted by Johns Hopkins Bloomberg School of Public Health, pointed that suicide rates for Asians and Native Americans have remained steady, while suicide rates for African-Americans declined 1.1 percent per year.

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ASSOCIATED COLLEGIATE PRESS

Headlines from around the world

Emily Trudell, Staff Writer

Air samples taken from the car of **Casey Anthony**, mother of missing three year old Caylee, were found to contain evidence of decomposition after DNA evidence found that the particles in the car resembled that of hair taken from Caylee's hairbrush.

The mother and brother of singer **Jennifer Hudson** were killed in a shooting in Chicago. The bodies were found in the home of Darnell Hudson Donerson, Hudson's mother.

According to a report by the **World Wildlife Fund**, the change in earth's climate caused by global warming is occurring at rates much quicker than originally predicted by the **IPCC Assessment Report** in 2007.

As many as 100 people have been reported as missing or dead in the **Yemen** flooding that has forced the evacuation of some 22,000 people from the nation.

A **nun** from the **Indian state of Orissa** has refused to cooperate with police, after she was attacked in a Roman Catholic prayer hall on August 24, raped and displayed naked in the streets while several policemen did nothing.

Ashley Todd, a GOP campaign worker, has been charged with filing a false police report after she came to a Pittsburgh police station claiming that a man had put a knife to her neck, demanded money and threatened her for being a supporter of the presidential candidate **John McCain**. She later confessed that the story was fabricated. Her bail has been set at \$50,000.

With **early voting** in full swing, some states are already reporting that their polling locations are having glitches, causing hours of long lines and distrust among voters.

A new study by students at **Yale University** claims that holding something warm can actually have a positive impact on a person's perception, making them feel kinder and good natured.

A study put out by the **Organization for Economic Cooperation and Development**, based in Europe, says that the gap between the rich and poor in North America and Europe is widening, and the

size of the middle class is shrinking.

NATO sent several warships to escort aid ships from the United States carrying food aid to the nation of **Somalia**, where pirates along the Somali coastline have hijacked some 25 ships this year and attacked over 50 ships total.

Presidential candidate **Barack Obama** left the campaign trail to visit his ailing grandmother,

Madelyn Dunham, in Hawaii, where she helped to raise the Senator. It has been reported that Dunham, who will be 86 years old this week, is suffering from a broken hip as well as cancer, and may not recover.

Traders fear that the **global economy** is slowing down, as commodities prices and stock prices fall, and large corporations report losses and cut production.



Van Tuyl Lecture – Neil Williams: “Y Generation Mineral Exploration”

Akira Rattenbury
Staff Writer

The old model of mineral exploration is dead. This was the declaration of last Thursday's Van Tuyl lecture. The speaker, Neil Williams, urged geologists to pursue “strong inference science” as a new paradigm for approaching the future of resource exploration.

Williams (from Australia) addressed an audience of old and young about the future of discovery, and presented several analogs from down under to illustrate his perception of the changing exploration field.

Williams began his discussion describing the “Y generation” who will soon fill the ranks of industry and be responsible for the mineral discoveries of the future. He described the echo boomers as being born between 1980 and 1994

and possessing many new traits previously untapped in geology.

He proclaimed Y-gens as the “first generation of digital natives,” who have always grown up with computers and technology as a component of their lives. Addressing the younger audience members, he declared, “You are the most formally educated generation ever” and “you have the ability to perform many activities simultaneously.”

The lecture shifted gears to describe the “growing mineral discovery crisis” in more detail. New copper deposit discoveries

have been stagnant compared to a growing trend in extraction, which will likely exceed discovery capacity around 2050. “The exploration world is failing miserably,” said Williams, citing studies that show 16 new “giant” deposits would need to be discovered by 2020 to keep up with demand.

“Exploration has skyrocketed in the last two years,” he said. The recent surge in exploration, bolstered by high commodity prices, has been interesting, but no major deposits have been made.

The future of exploration will not rely on surficial data, but rather the use of geophysical techniques and a new “mineral systems approach” to locate large mineralizations. Williams described the 1975 discovery of BHP Billiton's iron oxide-copper-gold deposit at Olympic Dam mine in Southern Australia as an analog

of new discoveries to come.

As the fourth largest copper deposit, fifth largest

in gold, and one of the world's largest uranium deposits, Olympic Dam was found through innovative approaches, which were able to detect the deposit under an average overburden cover of 350 meters. In the last 15 years, large sister deposits were discovered to the north and south using the more integrated discovery approach introduced at Olympic Dam.

Williams continued by stating new geologists will need to work undercover and focus more on the growing field of 3D geologic map-

ping, by making “extensive use of geophysical data.” A move from descriptive models to a “predictive search model” utilizing advanced geophysical techniques such as aeromagnetism, induced polarization and gravity studies, will steer the future of exploration geology.

The utilization of “strong inference science” with more qualitative and predictive modeling will yield more precise answers using “a lot of analytical thought” to quickly eliminate incorrect hypotheses. Williams noted the type of logic utilized in Sudoku puzzles will be essential to “solve problems by disproving options.”

A collaborative Australian program brought industry, academia, and government resources together to better characterize and use computer modeling to pinpoint mineralization surrounding an existing mine operation by eliminating possible exploration areas and thus streamlining the process to extraction. Williams showed how the group developed a “Sudoku” grid using 3D computer modeling and ran predictive simulations to reduce possible mineralization zones.

Williams concluded by expressing the need for future exploration to incorporate more teamwork and “a lot more collaborative learning” to find the next big deposits.

The lecture was “very interesting and highlights the future where exploration and this institution have to go,” said Y-gen undergraduate, Kelsey Zabrusky, following the presentation.

Neil Williams, a self-proclaimed baby boomer, is the current President of the Society of Economic Geologists (SEG) and the CEO of Geoscience Australia. SEG is an international professional society of mineral resource geoscientists.

Magnetometry in fuel cells

CONTINUED FROM PAGE 1

“On the nano scale, superparamagnetism is observed in the nickel ions, where you have small particle size [coupled] with huge spin,” said Dr. O'Brien. This behavior was found in one of Dr. Coors's samples. However, this characteristic has not been observed in any proceeding samples, so its nature remains a mystery.

Through the conducted tests, Dr. O'Brien and Dr. Coors also debunked a previously held idea: that a change in color of the NiO-YSZ fuel cell during operation affected overall performance. This shift in hue relates to the reduction of the NiO as the fuel cell operates.

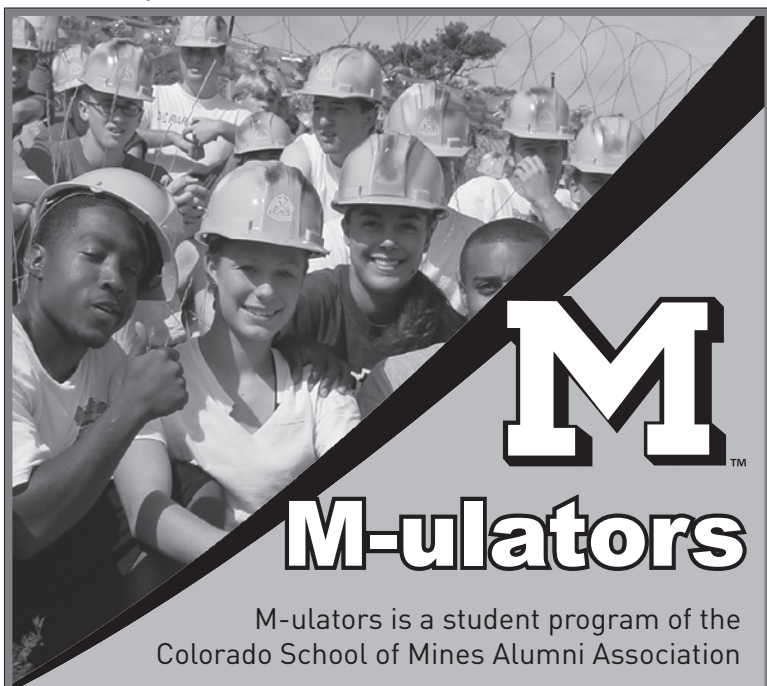
They theorized the culprit was, in fact, diffusion of nickel ions into the YSZ crystal structure, lower-

ing conductivity, and decreasing cell performance overall. “The fuel cell community looks only at 8YSZ,” said Dr. O'Brien. “10YSZ doesn't lose conductivity as 8YSZ does. We see the same [color] transformations, but no change in performance.”

10YSZ refers to 10% yttria doped throughout the zirconia structure. The same is true for 8YSZ.

Summarily, the diffusion of nickel remains a theory as the true mechanism for performance degradation. “All we can say is this [loss] is not due to the color.”

In his work with Dr. Coors, Dr. O'Brien is also cooperating and coordinating research with graduate students and professors from the MME department.



M-ulators

M-ulators is a student program of the Colorado School of Mines Alumni Association

**Please Save-the-Date for
upcoming “M”-ulator events:**

Wednesday, November 12
CEO Panel Reception

Meet and mingle with successful alumni corporate leaders and CEO's of top corporations around the world.

When: Pre-reception, 6:00pm – 6:30pm
Panel Begins @ 6:30pm (sharp)
Where: Green Center
Food: Light appetizers and beverages will be provided.
Contact: Alison Wheelock at alison.wheelock@is.mines.edu or call 303-273-3424 to RSVP.

Thursday, December 4
Holiday Party

Join fellow “M”-ulators, alumni, friends, family and President Bill and Karen Scoggins for some holiday cheer!
Stay tuned for more details!

Not a member of the “M”-ulators? It is not too late to join!
Go to www.minesonline.net and click on Membership for more information, or you can call us at 303-273-3295 or email csmaa@mines.edu.



**Colorado School of Mines
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Steven B. Hinchman '87

Executive VP of Technology
and Services
Marathon Oil Corporation

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Security**

Thursday, November 6, 12 - 1 p.m.
Metals Hall, Green Center

Box lunches for students served immediately
following the lecture

Please rsvp to Pat Bohner by November 3
patricia.bohner@is.mines.edu or 303.273.3135

Music Review

New Surrender. Anberlin

Spencer Nelson
Staff Writer

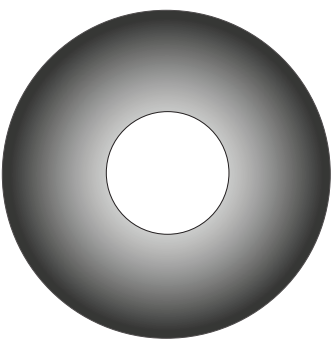
Anberlin has been known for their driving beats and melodies that are impossible to forget. Because of this, many expectations were placed on the band for their fourth album, *New Surrender*. Although the change in their sound was significant from their previous albums, few fans will be disappointed with *New*

Surrender.

The album starts quickly with "The Resistance." The fast, palm-muted guitars and fast beat that start the song in typical Anberlin fashion is a promising introduction to the rest of the album. The album continues to progress with a wide variety of song styles. Anberlin fans will love the second song on the album, "Breaking," which sounds like it could have been directly off of Anberlin's previous album, *Cities*. A change Anberlin has incorporated in their music is a larger use of synthesizers, which can be heard on almost all tracks, and is highlighted on "Disappear" and "Haight Street."

Unlike most of Anberlin's previous music, many songs on *New Surrender* have a dance beat to them, especially "Blame Me" and "Haight Street." Another notable track is a redone, harder version of "Feel Good Drag," originally found on their second album, *Never Take Friendship Personal*.

Although many bands are able to write lyrics that sound beautiful and poetic, Anberlin does so while still having meaning. The varieties of topics in the songs are about as diverse as the songs



themselves. A few songs like "Younglife" remember good times shared with friends and lovers. "Breaking" describes a girl who is skilled at breaking hearts and probably has had much previous experience. Many songs are about living for something more, as is the case with "Disappear" and "Burn Out Brighter (Northern Lights)." Only a few songs, like "The Resistance," are difficult to pick out meaning.

A change Anberlin has incorporated in their music is a larger use of synthesizers, which can be heard on almost all tracks...

New Surrender remembers the past and hopes for the future. Relationships, ambitions and life fill the album

from start to finish in a remarkable musical work. Although Anberlin has changed their sound slightly, the end product is worth every minute. Full of unforgettable melodies and thought-provoking lyrics, *New Surrender* is sure to be a favorite of both fans of Anberlin's previous albums and those who have never heard of them before. This album is highly recommended for fans of Paramore, Emery, Dashboard Confessional and Self Against City.



CERICIA MARTINEZ / OREDIGGER

Must See Movies: Men in drag

Benjamin M. Weillert
Staff Writer

With Halloween coming up this Friday, many of us are finalizing our costumes to wear to all of the parties. Sometimes dressing up can be fun and exciting, but it can also get out of hand. Take, for example, these three movies, which show what lengths some men will go to in order to obtain jobs or even stay alive. That's right; here are movies about men in drag:

1. *Some Like it Hot* (1959)

When Joe (Tony Curtis) and Jerry (Jack Lemmon) witness the St. Valentine's Day massacre, the only chance for them to stay alive is to find a job far out of town. However, since they're musicians, the only available jobs are to join an all-female band. This façade quickly gets out of hand when the two men start relationships. Joe pretends to be a rich yacht owner in order to woo fellow band mate Sugar Kane Kowalczyk (Marilyn Monroe), while Jerry (under the guise of "Daphne") has attracted Osgood Fielding III (Joe E. Brown). Hilarity ensues as both try to maintain their multiple covers and avoid being found by the mob. Placed in the American Film Institute's top 100 at #22, *Some Like it Hot* is full of great lines and great comedy.

2. *Tootsie* (1982)

Michael Dorsey (Dustin Hoffman) is an actor who can't seem to get a job. That is, until a role opens up on a soap opera. Unfortunately, the role calls for a woman. In order to pay the bills, Michael takes up the persona of Dorothy Michaels and gets the part. While working on the day-time drama, Michael develops

feelings for his co-worker Julie Nichols (Jessica Lange), as the director, Ron Carlisle (Dabney Coleman), falls for Dorothy. Everyone falls in love with Dorothy Michaels' personality, which causes the soap opera to become a success. When Michael finds himself in a corner, he has to come clean about his cross-dressing in an impromptu speech during a live taping of the show, which shocks the cast, but is a twist all too familiar to fans of soap operas. Placed at #69 of AFI's top 100, *Tootsie* is a good movie to show that sometimes the best way to respect women is to become one of them.

3. *Mrs. Doubtfire* (1993)

Recently divorced and out of work as a voice actor, Daniel Hillard (Robin Williams) is on the verge of losing custody of his children. So what's the best solution to all his problems? That's right, become the children's nanny. With some extreme makeup help from his brother Frank Hillard (Harvey Fierstein), Daniel (under the pseudonym "Mrs. Euphegina Doubtfire") is hired by his ex-wife Miranda (Sally Field) and gets to spend time with his children. As a bonus of being close to the family, David has the opportunity to foil the wooing of his ex-wife by Stuart Dunmeyer (Pierce Brosnan). Soon Daniel's cover is blown and he loses custody of his children. However, in the process of becoming Mrs. Doubtfire, Daniel makes some serious character changes, which allow him to start regaining everyone's trust once again. A feel good movie, *Mrs. Doubtfire* is perhaps one of Robin Williams' better roles.

For Homework – See *Shakespeare in Love* (1998)

WHAT'S HAPPENING IN THE CAREER CENTER

These are the upcoming Career Center hosted events! Students, please sign up on DiggerNet as many information sessions offer refreshments and need to plan ahead.

Monday, October 27, 2008				
HighMount Exploration	6:00 – 7:00PM	Ballroom C	ChemE, Mech, EngSys, PE	
Tuesday, October 28, 2008				
Babcock Power	5:00 – 6:00PM	Ballroom A	Civ, Elec, Mech, EngSys ChemE, BioChem	
Mortenson	6:00 – 7:00PM	Berthoud 241	Civ, Elec, Mech, EngSys	
SeverCorr	7:00 – 8:00PM	Berthoud 243	Chem, Elec, Mech ETM, EngSys, Phys, Met	
Wednesday, October 29, 2008				
Washington Group/URS	5:30 – 6:30PM	Brown 204A	Elec, Civ, Mech, Enviro, EngSys, BioChem, ChemE, Min, PE	
Thursday October 30, 2008				
Northrop Grumman	5:00 – 6:00PM	Brown 204A	Civ, Elec, Mech, EngSys, Math	
M-I Swaco	6:00 – 7:00PM	Brown 201	ChemE, Civ, EngSys, Mech, Elec, Enviro, ETM, Econ	



Contact the Career Center for help with correcting your Profile on DiggerNet – Major, Grad Date, Work Authorization and Degree.

We can assist with resumes, contract evaluation/negotiation, even video practice interviews!

We are located next to the Registrar.



Beer Review

Pliny the Elder

Akira Rattenbury
Staff Writer

"Respect your elders" is the type of threatening platitude you heeded as a youngster to get ice cream after visiting grandma's house. If your palate visits Pliny the Elder, the trip itself is its own reward.

Pliny has a good head with some lacing, and the mild bite of hops meet the eye and nose on the initial pour. The beer has a nice translucent golden yellow color. Perhaps a figment of my imagination, the beer has a slightly mature and aged tint when held to the light.

Its taste is suitably hopped, yet not metallic. I detected complexity that was hard to pinpoint under the mellowed sweetness that cancels any unpleasant bitter lip-smacking due to the hops. Sipping invites a slightly viscous or resinous mouth-feel but it does not leave the aftertaste typical of

a double India Pale Ale. Fellow imbibers Laura Vallejos summed up the beverage nicely, "This is really good, oh my gosh!" Indeed. In my enlightened state after finishing the bottle, I wrote a haiku:

Subtle, smooth, tasty.
Hop-tingling. Delicious.
Fill my glass again.

Stars: 4.5/5



LILY GIDDINGS / OREDIGGER

Music Review:

Stay Positive The Hold Steady

Jake Rezac
Staff Writer

The Hold Steady are often compared to Bruce Springsteen. Lead singer Craig Finn's gruff voice, coupled with the pervasive drum patterns and powerful guitar and piano solos, which are common in Hold Steady albums, make this comparison very apt. The band, which has roots in the Twin Cities, even discusses the same sort of American themes which Springsteen made his forte. However, in this regard, The Hold Steady does more than Springsteen ever could. This is particularly apparent in their newest album, *Stay Positive*.

The album begins with "Constructive Summer," an upbeat song that undulates between being The Hold Steady's apparent take on punk music and a classic rock ballad. The former of these seems to be validated in the song's lyrics, which make references to Iggy Pop and The Clash. The song's upbeat rhythms and guitar solos make both a good introduction for the rest of the album and a good introduction to The Hold Steady's overall style.

The second track, "Sequestered in Memphis," deserves being the album's single. Although, musically, key elements of The Hold's Steady's music pervades the song, lyrically, the impact of band influences John Danielle of the Mountain Goats and poet Jim Carroll becomes clear. It tells the story of a man who appears to have had some sort of affair with a fugitive. It tells this story from the point of view of the man being interviewed by a lawyer at trial. Not only does it tell the story very well in only two verses, it also demonstrates the man's frustrated feelings at being interviewed. The second verse ends, "Well look, what the hell, I'll tell my story again," which perfectly explains how the man – and many people

in his situation – feel. The whole album is full of these sorts of interesting and well-told stories. However, it's not simply a lyric-heavy album, full of verbose and abstract sentiments. Anyone who's a fan of classic rock will certainly be satisfied by Hold Steady's music. Some of the songs also have more modern sounds. "Navy Sheets," for ex-

ample, contains guitar riffs which could very well have been written by Radiohead. The album also contains beautifully orchestrated ballads, such as "Lord, I'm Discouraged," which has empathy-producing piano segments and "Slapped Actress," which ends with efficacious use of a

small choir. Other highlights include "Stay Positive" and "Magazines." The only problem which presents itself in the album is that many of the songs are very similar. In order to easily differentiate between songs on the album, a more than casual listen must be undertaken. Aside from that, the album is fun and upbeat and it contains extremely pertinent selections of

wisdom addressing the difficulties of life along with well-crafted ironies related to life. The album is many things, depending on the mood of the listener. Sometimes it's simply a good, upbeat set of music. Other times, it feels didactic. Sometimes, it is even darkly humorous. And occasionally, it is all of these, and more, presenting an excellent and diverse album.

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Ask Mabel

LILY GIDDINGS / OREDIGGER

Dear Mabel,
I have class during doctor's hours. What do I do if I need to see a doctor?
Signed,
Not Sick Yet but Planning Ahead

Dear Student Not Sick Yet,
Great question! Here's the great news - you don't have to wait for Doctor's Hours - ever! The SHC is staffed every day with nurses and nurse practitioners who can take care of you.
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The Nurse Practitioners (also known as Advanced Practice Nurses) are RNs with board certi-

fication to diagnose, treat, and prescribe. They do the Pap smears, write prescriptions for your medicines that aren't available at the SHC and order tests and treatments as needed.
So, why would you even want to wait to see the doctor? Well, sometimes the RNs and NPs want you to get a quick second opinion on certain illnesses and injuries, without sending you to someone in town. Our doctors here are superb and are a great resource for you.
The doctors should be seeing the sickest of the students. Bring your coughs, colds, stomach aches, sprains and strains, depression, well woman exams and med refills to the RNs and NPs, before doctor's hours. Since doctor's hours can get pretty busy, you'll have to wait longer to be seen. Your visit to the SHC earlier in the day may let you get out quicker! Which means you can get back to class or your studies sooner.
So, don't wait 'til doctor's hours! Come see us any time in the day (except during lunch, okay?) If we think you need to see a doctor, we'll arrange that for you.
More "Ask Mabel" questions and answers online at www.oredigger.net

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Please RSVP by November 7th to kmartin@mines.edu

WWW.OREDIGGER.NET

Geek of the Week

...Alec Anderson, Senior: Geological Engineering

Alyssa Volk
Staff Writer

[Oredigger] Do you consider yourself a geek?

[Alec] No, not so much. I guess being at this school somewhat qualifies me for being a geek. But compared to the majority of the people here, I'm really not that geeky.

What is the geekiest thing you own?

I have quite a large selection of jigsaw puzzles. Back in the day, even when I was in high school, I used to do them. When I finished a really big puzzle, I would glue all the pieces together and put them on my wall. I had a Star Wars puzzle and a lot of others. In fact, I still remember my first puzzle ever. It was a 25 piece set of a dog and I did it when I was only five or six. I haven't done any puzzles lately, but I'm definitely considering busting one out soon.

Do you have any nicknames?

People on the rugby team call me "Pretty Boy." My freshman year, I had just come back from a long summer of being on the beach. I always wore headbands to rugby practice. Everyone told me I shouldn't be playing rugby because I looked like a pretty boy.

Do you have any phobias?

I hate spiders with a passion. The dorms here on campus have a lot of them. My freshman year,

my roommate was about to brush his teeth one night and I saw a black widow on his toothbrush.

What is your favorite movie? Movie line?

My favorite movie is "Out Cold." My favorite movie line is, "I'll tell you where. Someplace warm. A place where the beer flows like wine. Where beautiful women instinctively flock like the salmon of Capistrano. I'm

talking about a little place called Aspen."

What's your favorite geek joke or pick up line?

"You know... geologists know a lot about overturned beds from heavy

thrusting."

Why did you choose to attend Mines?

I chose Mines for its good academics and location. I love that the mountains and Denver are nearby. I'm originally from Washington, so I really like the outdoors. Plus, the overall atmosphere of Colorado is great.

What activities or clubs are you involved in?

I play rugby, snowboard and I'm part of the geology club. We have weekly meetings and people come in and talk about certain types of geology. Some of the topics are really exciting, especially tunneling.

What do you hope to do with your degree in geology?

I'd like to work with a geotechnical firm, possibly doing construction. I came to this school for chemical engineering, but once I got to Chemistry II, I realized

it was less of what I wanted to do. I ended up taking a general geology class and that's what got me into geology.

What is your favorite electronic gadget or piece of technology?

Well to start off, I hate iPods. Everyone has one and it's ridiculous. My favorite piece of technology though is those little video cameras that they have on Mac computers. That's my new thing.

Do you have any geeky talents?

I'm really good at Freecell. I play the solitaire game or golf. I even got up to 80% on it, with a 25 game winning streak. When I study, I usually get distracted and normally do that.

If you could have any superhero power, what would it be and why?

I would control time. That way, you could make more mistakes, or have more time to study for tests. You could go back in time and reverse anything or undo anything.

Tell me something about yourself that very few people know.

I was big into Teenage Mutant Ninja Turtles when I was young. I used to run around my backyard pretending I was one and attacking ferns. My favorite ninja turtle was Leonardo; he was the man with his double swords.



ALYSSA VOLK / OREDIGGER



First came Napster, the illegal one, a way to share music over what were then mostly dialup and low-speed DSL connections. Then came iTunes, the first big online music store. Then came Rhapsody and a new Napster: buy a monthly subscription and play pretty much any music on pretty much any device-except the iPod. Then came Amazon MP3: MP3s for a lower cost than iTunes' protected tracks. All hallmarks of advancements in online music. I've used incarnations of all these services: P2P, iTunes, monthly subscriptions, DRM-free stores. This is the biggest revolution in online music yet.

This meaning the new lala.com. Formerly a CD-trading service, a music-streaming service and maybe another online-mu-

stream almost any of the six-million-plus songs available once, all the way through, in decently high quality around 89 cents, depending on the song. Or, buy the streaming version now, and the ten cents you paid will go toward an MP3 purchase later. As with other online music stores, full albums get a discount. On Lala, this means that a

and Microsoft's Zune Marketplace. Even more community-based music sites like eMusic and Amie Street (heard of them? Didn't think so) will likely be eclipsed. Pandora? I'll bet they will get bought by Lala. Their product is so good, that this article is in the paper in place of a Mac-PC showdown.

Lala's product is music, that's all. With that as the goal, their service tries to make it as easy as possible to discover and buy music, and succeeds. I hate sounding like a press release, but their model is brilliant. You can stream almost any of the six-million-plus songs available once, all the way through, in decently high quality (128 kbps for most tracks, 64 kbps if Lala is dealing with an ornery label). Beyond that, you can listen to a 30-second preview of the song, buy unlimited, for-forever streaming of the song for ten cents (that's right, a lousy dime!) or buy a variable-bitrate, 256kbps-average MP3 for

web-streaming album usually costs south of a dollar for unlimited plays, and a digital album is about \$7.49. It gets better. When you sign up, you get 50 "credits" to turn single-play song previews into unlimited, on-demand, streaming versions of those songs. Even better, you get 5 credits per person for the first five people you refer to the service (full disclosure: the online version of this article has such a referral link at this time). To top it all off, you can import music from your home computer into the Lala library; either their servers authorize you for streaming versions of songs both you and they already own, or else their software allows you to upload your music collection to Lala, from which you can stream it anywhere with an internet connection. There's even an iPhone application in the works, so you can stream the music anywhere there's a decent AT&T signal (3G service is probably preferred).

The service has an interface to match its innovation. At first glance, Lala is different than your average online music store, relying rather heavily on search and lists of songs by genre and playlist, but after that first glance you see the online store for what it is: a powerful, cross-platform way to quickly get at music you want to buy, or discover music you want to listen to. The search function is easily accessible and accurate. The artist and album information pages are very well-done,

and built into the site is a player at the top of the screen, complete with a queue and a quick-add option to turn whatever you're listening to into a unlimited-streaming track (if it isn't one already) or to share the song in a variety of ways.

Speaking of the music player, in addition to the "miniplayer" at the top of the

web-site you also get a library for all purchased songs (whether for streaming or for stream-and-download MP3 versions) that, at first glance, looks like iTunes with some blue accents. It is very familiar and very well done. You can give any song you have to anyone in addition to sharing it; at ten cents per song, why not?

The community features of the site are also solid. You can quickly go from one album to a related one, or to playlists or the members behind them. People who get others discovering new music are pushed to featured status on Lala's main page, and the requisite user profile pages have all the music information you could want. You can see what a given member has played recently, what their favorite songs

and preferred genres are and what artists they listen to most. You can "follow" them (and they can follow you back) so any updates on their music status will be seen by you.

There are even "blurbs," quick messages that you can post onto your own, or others', profile pages.

Of course, if you want more privacy, this means that a web-streaming album usually costs south of a dollar for unlimited plays, and a digital album is about \$7.49

In short, Lala (www.lala.com) is the best way I've found to discover and buy music online, no holds barred. I have a Rhapsody account until the end of the year, where I don't have to pay to listen to Real's vast music catalog, but this is better even if it costs a little bit to buy songs. Granted, there's always room for improvement on a site like Lala, and maybe another "trial play" or a non-iPhone cellular version of the site would be appreciated, but I honestly can't think of anything else that Lala hasn't thought of. As such, resisting the temptation to playfully "turn it up to eleven", Lala gets a solid 9/10 by my book. If sliced bread were a breakthrough music store, Lala would be the best thing since then, if not better.

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Non-Geek of the Week

...Matt Anderson, *Sophomore*: Civil Engineering

Benjamin Johnson
Staff Writer

[Oredigger] What is your favorite sport?
[Matt] Soccer is my favorite sport because football is too easy. They get breaks every thirty seconds, they need oxygen every fifteen and they run no more than forty yards at a time.

What is your favorite team?
Manchester United.

Do you play any sports at Mines?
I play intramural soccer.

Did you play sports in high school?
I played varsity soccer all four years.

What are your favorite activities?
My favorite activities include snowboarding, playing my guitar and pimping.

What brand of guitar is your favorite?
Definitely Gibson, but I wish I could afford one.

Do you have a girlfriend?
Yes. Only the best.

What aspect of her is the most attractive to you?
She goes to Mines so she is going to making a lot of money, just like me.

What is something normal on campus that you participate

in?
I don't run to class, I don't show up to a test 30 minutes before it starts to sit in the front row, I only have one backpack, and I don't stare at my feet when I walk. The list goes on.

Do you workout?
Yes, at least twice a week.

What is your favorite exercise?
Running, it's the best for you.

Where do you like to run and workout on campus?
Along Clear Creek, and I work out in the Recreation Center.

What do you want to do after graduating?
Join the Air Force as a civil engineer.

What type of stuff would do as a civil engineer in the Air Force?
Most likely I would get deployed and lead a team of civil engineers in the Middle East.

Is there anywhere specific that you would want to be deployed?
Not specifically, but the safer the better.

Have you ever flown in a jet?
Yes! I got to go down to Arizona and ride in an

F-16! It was awesome; I even got to fly it myself.

Why did you come to Mines?
Good question. Touché, sir.

What is your favorite type of automobile?
Easily the Aston Martin V 1 2 Vanquish. In the

words of Hanson Rob, "There's not a lot a girl wouldn't do in the backseat of one of those."

Where is the best place to hang out on campus?
Not on campus.

What do you like

to do in your free-time?
I like to relax and hang out with friends and avoid homework.

If you were able to solve any problem in the world, what would it be?
I would solve Al Gore. He's a problem.

What is the riskiest thing you have ever done?
I went on a double black diamond the third time I had ever been snowboarding.

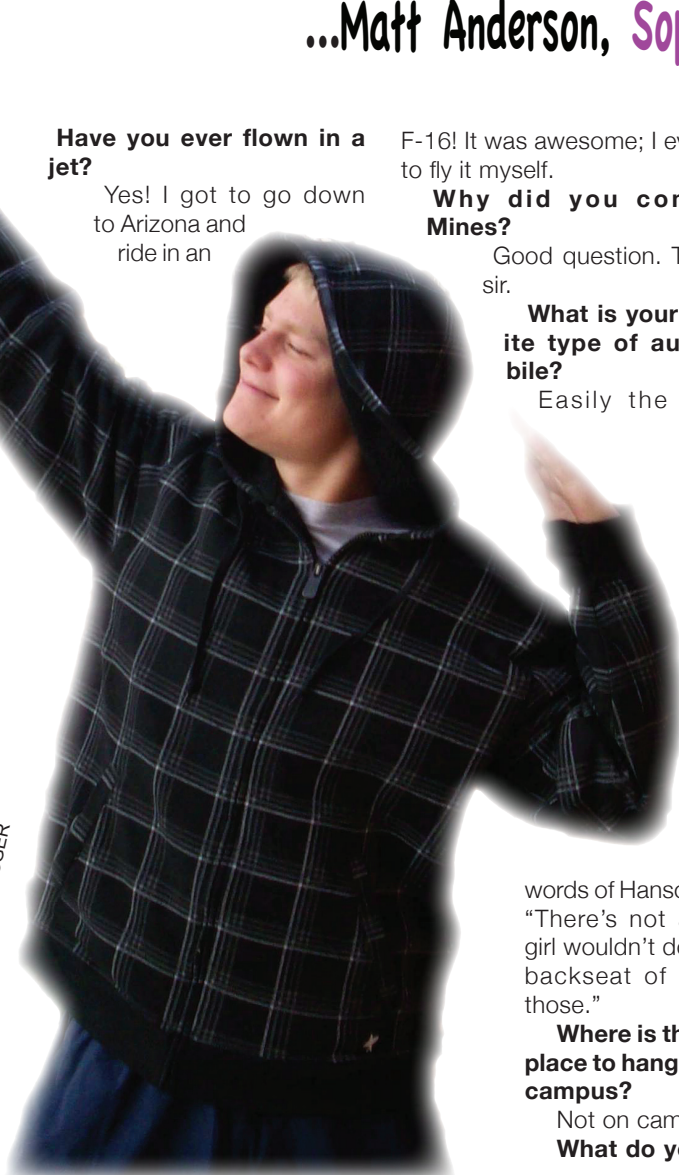
What is a little known fact about you?
I'm a pimp, the girlfriend is just a cover-up.

What kind of music do you like?
I like anything and everything. I don't think there is a single type of music I don't have on my computer.

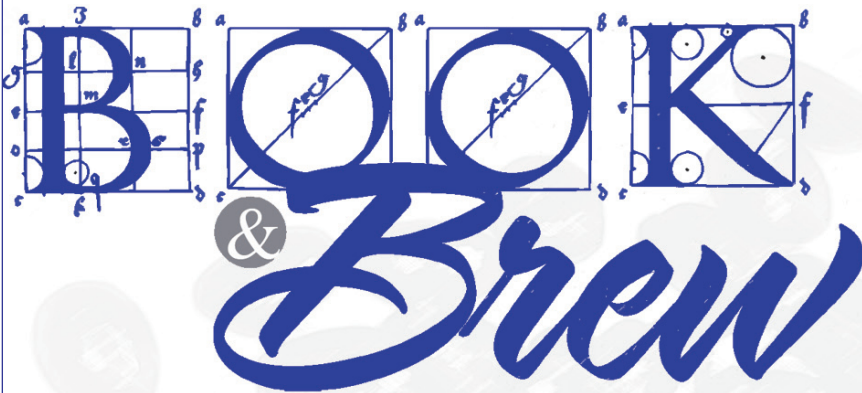
What is your favorite band?
Not Linkin Park. I can't pick any one specific artist because I like so many but it is definitely not Linkin Park because they have no actual talent.

What is the best part of being at Mines?
I actually have a girlfriend.

What is the worst part of being at Mines?
The ratio.



BENJAMIN JOHNSON / OREDIGGER

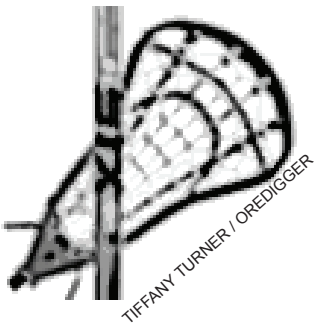


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MINES MEN'S LACROSSE:

More Than Just a Club

Keegan Hammond
Staff Writer

The Colorado School of Mines (CSM) men's lacrosse team is on a four game winning streak, with the most recent win coming against The New Mexico Tech Pygmies in the home playoff game on October 18. This victory moved CSM into the Division II regional playoffs where they will host a home game on November 2 against Regis. President of the Rugby team, Kevin Smith, says, "Regis is one of our rivals. We lost to them in a regional playoff last year in the last seconds. We had a 3 try lead on them and we gave that many up to them in the final 10 minutes of the game. So we're gonna make sure we win this year."

According to the (CSM) Lacrosse website, the team has deep roots. "We are a

dedicated and progressing team. Every man on the team knows each other and helps out with school, family, rides, free time. We want every man on the team to succeed not only on the field and in school, but in life as a good person."

On Saturday October 25, 2008, the team competed in the First Annual Golden Fall Brawl at Manning Middle School. The eight teams competing included: CSM, Regis, Metro, UNC, Fort Lewis, Montana State, Wyoming and Western. During the blustery noon game, CSM played Regis University. Regis won the first face off, but the Orediggers answered back with three smashing goals, keeping the Regis goalie on his toes. Matt Nobles struck first, followed by Ryan Marsters and Pete Stacey to finish out the half. Regis had a weak reply that scored one goal.

Regis struck first in the second half, which did not sit well with the Orediggers. Matt Nobles retaliated with a goal, while Daniel Staton and Pete Stacey added two consecutive goals less than a minute apart. Pete Stacey struck again to end the game with a final score of CSM 7, Regis 2. Kudos to CSM for yet another win.

After the game, Coach Zachary Lehmann said that the team is looking to achieve Varsity status. They plan to do this by "winning games and proving to the school that we have the ability to play at the Varsity level, I know we do, we just have to prove it to the school." The Fall Brawl marks the end of the fall season. However, the team starts in January with their annual lacrosse poker tournament

and then games start again in February.

Captain/goalie Mike Stone says that the "team is looking forward to playing Fort Lewis and Montana State as they're some of the toughest teams." Since the team only lost two seniors last year and gained ten freshmen, Stone says that "the team is improving exponentially" and is very excited for the spring season.

To join the amazing Mines Lacrosse team, visit the Lacrosse team's website at inside.mines.edu or speak with one of the numerous players. Just remember, men's lacrosse is not for the faint of heart. It is a fast paced, hard hitting and exhilarating game.

Make sure to come out and support the team in the spring. I can promise you, you will not be disappointed. This club is one to watch.



ALL PHOTOS KEEGAN HAMMOND / OREDIGGER

Ruck, Maul, Scrum

Elise Goggin
Staff Writer

The Colorado School of Mines (CSM) men's rugby team is on a four game winning streak, with the most recent win coming against Rio Grand in the home playoff game on October 18. This victory moved CSM into the Division II playoffs where they will host a home game on November 2.

As the men prepare to play in the Division II playoff game, it is important that the fans also prepare. After all, if you show up to the game ready to cheer on the team, you must know the correct jargon. So, to bring the 90% or so of the student body who thinks a hooker has no place on a rugby field up to par, here are "7 Quick Facts About the Other Football."

There are three main differences between American football and rugby:

The ball cannot be passed forward, only laterally or backward.

There is no blocking.

When the ball hits the ground, the play continues.

(There are about a million more, but there is no time for that, now)

A team is made up of fifteen players: 8 forwards, 6 backs, and

a halfback.

A team can score in one of four ways:

A try is worth 5 points and it is similar to a touchdown, but the player must touch the ball to the ground in the end zone.

A conversion is like an extra point in football, but in rugby you can place-kick or drop-kick the ball through the uprights after a try for 2 points.

A drop goal is worth 3 points. At anytime a player can drop-kick the ball through the opponent's uprights.

A penalty kick is taken at the spot of the penalty. It is a place-kick or a drop-kick and it is worth 3 points.

A ruck occurs when the ball is dropped. The opposing team has to try to push the other team away from the ball and use their feet to get the ball to their halfback.

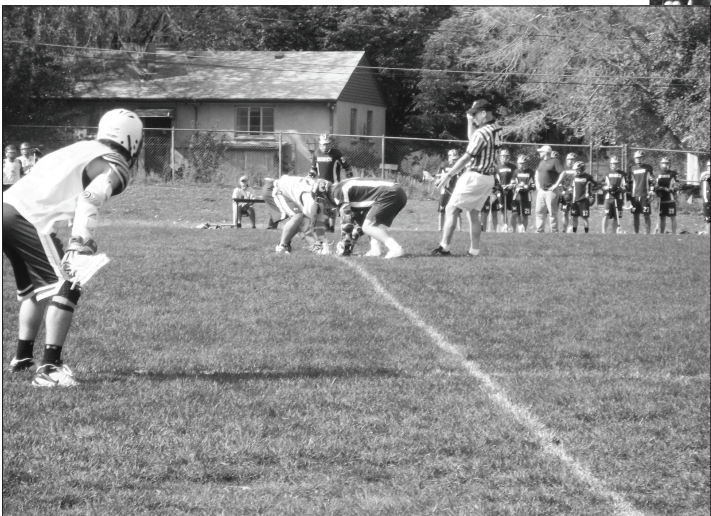
A maul is similar to a ruck, but the ball is off the ground and the players can use their hands.

A scrum occurs when a rule is broken. The forward of each team lock arms and try to push the other team

away from the ball, which is thrown in the middle by the halfback. This is where the hooker uses his feet to get the ball out the back of the scrum to the halfback.

Mistakes include, but are not limited to knock-ons, off-sides, high tackle, playing the person and shepherding. (Look them up, and don't cheer when they happen.)

The world of rugby is very complicated, and it would take more than these seven facts to truly understand the game, but it should be sufficient for a first time fan who doesn't want to make a fool of him or herself. So when CSM is playing in the Division II playoffs next week, just remember that, as chaotic as it may seem, there are rules to this game, and if you think they are going to kill each other out there, just think of the scrum as a big group hug and it makes it all better.



ALL PHOTOS KEEGAN HAMMOND / OREDIGGER

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Class Details: Spring 2009, Thursdays from 5-7 PM, Student Center, taught by Marie Hornickel, Assistant Director of Student Activities

For more information please contact the Student Activities Office at 303.273.3234

MINES MEN'S SOCCER CONTINUES TO REACH GOALS

Keegan Hammond
Staff Writer

With an impressive overall record of 7 wins, 2 ties and 4 losses with a record of 5 wins, 2 ties and 1 loss in Rocky Mountain Athletic Conference (RMAC) play, the men's soccer team is well on their way to kicking up an impressive season. Not surprising, since the team returned seven starters and 18 players who earned letters last season.

The Orediggers had a wonderful kickoff to fall break, defeating Mesa State, who is ranked fifth in the Division II NSCAA (National Soccer Coaches Association of America). This netted the Orediggers an improved Central Division ranking and has moved them into third place, just behind Fort Lewis in first and Metro in second. Moving to the RMAC rankings, Mines is ranked number two with Metro being ranked number three.

RMAC awards three points to a team for a win, one point for a tie and zero for a loss, therefore, Mines leads Metro by two points. Fall break did not, however, bring excessive amounts of time for the team to relax since on

Saturday, October 12, the boys were busy shutting out Colorado Christian with a final score of Orediggers 4, Colorado Christian 0.

Academically, the team is also netting excellent results. Nine of the starters or key reserve players have been recognized as members of the Academic All-RMAC team. Cameron Brown (senior/Mining Engineering), Kenan Bisic (junior/Chemical and Biochemical Engineering), Trevor Braun (sophomore/Chemical Engineering), John Moseley (junior/Business and Economics), Jeff Nelson (junior/Geological Engineering), Drew Werth (junior/Metallurgical and Materials Engineering), Nic Amedo (sophomore/ Mechanical Engineering), Chris Bostic (sophomore/Mechanical Engineering), and Denver Williams (sophomore/ Chemical Engineering) have all achieved a 3.2 or better GPA and have attended Mines for at least two semesters. Head coach Frank Kohlenstein said that, "not only are they competing well on the field, they're doing well in class as well. That says something about the student athletes here [at Mines]."

Coach Kohlenstein's predic-

tion for the teams' next game with Metro is that "it will be a tough match. Generally our games against them come down to one goal one way or the other. I don't think that it matters who is the home team, it is just who has the decisive goals." His goals for the rest of the season are to make it to the RMAC conference tournament November 7, and he comments that, "we will need to win at least three of the last six matches of the season, but obviously we hope to win them all."

Students, it is your turn to come out and support the team as they tear up the field. Coach Kohlenstein suggests that Mesa State and Fort Lewis will be some of the most exciting games. "Fort Lewis is number three in the country and perhaps our most bitter rival, we hope that our crowd will be at least as big as theirs." He understands that "as we play off campus, it makes it hard, but it is a beautiful location and hopefully there will be more students." The coach has spoken, let's step it up.

Your soccer team's next home game is October 26 at 2:30 pm versus Fort Lewis. Come out and support these goal driven athletes.



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Principally Irked

Hey everybody, shut the Joe up, it is old already

Andrew Aschenbrenner
Opinion Columnist

I'm sure I'm not the only one in this campaign-weary nation that is sick and tired of all the euphemisms and pandering and stump speeches. This crap is fed to the American people and the lapdog media like candy, and it's eaten up, time and time again.

The latest episode in shameless pander started rather innocently, as Barack Obama was making his way through Ohio before the third Presidential debate two weeks ago. He was canvassing in the town of Holland, when he got a challenge on his tax plan from a man that said he wanted to buy a company that makes over \$250,000 a year. He reportedly said, "Your new tax plan is going to tax me more, isn't it?"

It's a simple question, and Obama had a conversation with him on what the new tax plan would mean for him. Saying he was a plumber, the questioner also pressed Obama on the fair tax. The exchange seemed normal, or so I thought. The key moment that took over the media-sphere was when Obama said that he thought it was "good for everybody" when you spread the wealth around.

All of a sudden, a some guy who asked Obama a question on his neighborhood street is the biggest topic of the campaign. What is

wrong with that picture? It seems like there are points in time where the media and the politicians will do anything in their power to avoid actually talking about the real issues. Instead, it's all about the 15 minutes of fame for some bum from Ohio, henceforth known as Joe the plumber.

I sat through an entire Presidential debate, which could be summed up remarkably accurately as "blah blah blah Joe the plumber blah blah ACORN blah blah Bill Ayers blah blah." Holy hell, it's like it would have killed them to drop their talking points for half a second. Now, to hear the media tell it, Joe the plumber, or rather, Sam the unlicensed attention-whore, might replace Sarah Palin as the VP nominee.

Now the McCain campaign, which has successfully devolved into a series of meaningless charity appearances, is running "Joe the plumber" bus tours, and parroting lip service for everyone. Eat your motherf#%&in heart out. "Joe" thinks he may be running for Congress in 2012. "Joe" represents the working man. "Joe" thinks Barack Obama is a socialist.

I won't get into Obama's policies, because whether they are socialist or not is beside the point. What is the point is the mindless blabbering about "Joe six-pack"

and "Joe guy" and all of the other demeaning and ridiculous euphemisms for the average white guy in America. This is why the rest of the Western world thinks we're idiots.

What the rest of the world sees is a complete circus entirely based on hyperbole and sound bites. Those people who are not confined to the American media perception bubble know how screwed up it all is. But maybe we're starting to see the light. Maybe the majority of Americans have stopped marching in lockstep with the blaring message of the mainstream press? Or not.

We say we hate the negative campaigning, and the lip service, and the morbid fascination with the latest kidnapped 8-year-old white girl, and yet, there are millions who sit transfixed and can't get enough of the sensationalism. So commercial media keeps feeding it to us, because they know that Britney Spears and Lindsay Lohan get good ratings.

How does it stop? Simple. It has to be in the media's best interest. Or, for once, the head bosses at the newspapers and radio stations and TV networks could put substance ahead of ratings. And hell will freeze over, and Richard Simmons will marry a woman, and Utah will vote for a Democrat for President. Hey, at least I can hope.

Cultural diversities

Georges Ngonyani
Staff Writer

Let me start by introducing myself. I am a Fulbright visiting scholar from Tanzania. In this beautiful school, I teach Kiswahili and take only two classes. I graduated at the University of Dar es Salaam in Tanzania and my areas of specialization are linguistics, public administration and education.

While at the university, I studied culture, and the simplest definition of culture I have is that of "The totality of all of the peoples' ways of life in a particular social setting." However, this conception existed in my mind for a long time as just as a myth since I had never traveled out of my country and experienced other cultures other than doing a mere reading about them. Now I can practically experience the reality of cultural differences existing between different groups, America and Tanzania in particular.

This article does not intend to criticize any culture since I believe that any cultural practice has a meaning in the group where it is applicable. The aim thus is to share my culture with what I have experienced in the America, particularly in Golden and the School of Mines if not "mine." I am going to name these cultural aspects as **"Cultural shocks."** The reason for this is simply that when people intermingle with other social settings, there is a need to do what we call **"Cultural adjustments, or coping."** However, this isn't an easy task hence most people would suffer the disease called **"Home-sickness."**

For this article, I have picked up two "cultural shocks," greetings and food habits. Greeting as my first cultural shock. Upon my arrival, I was shocked to hear students greeting their professors of whatever age they are with a "Hi!" Also, in downtown Golden, I met kids who used "Hi" to

greet people who were older than they were. The first day I arrived, I met Dr. Kay Godel, who is my supervisor. I greeted her with "Good morning madam." She responded, "Hi," then took me to the Director of LAIS, Prof. Amery. He also told me "Hi." Then I met Connie Warren and Janelle Duke, who also work in LAIS. They also saluted me with a "Hi." When I attended my first class, the professor greeted the students "Hi" and they also responded with a "Hi."

Why was I shocked? In Swahili culture/Tanzanian culture, age differences matters when greeting someone. That is, there are special greetings that young ones use to greet people older than they. These cultural practices also have effects when people use English. Therefore, "Hi" would be used among the age-mates, but not ones' teacher/professor regardless of their age. I mean that, ones' position and age have reflections in the kind of greetings to use. Therefore, in Tanzania, I would not greet the people I have named above with a "Hi." On the other hand, it is the young ones who should always begin the greeting, and if it happens that the young one did not see the elder, the elder would begin the greeting by saying, "How are you?" Then, the young one will have first to apologize before responding to it, so it will be like this "Excuse me, sir/madam, I did not see you, I am fine, Good/morning/evening/afternoon, sir/madam."

In Tanzania, a couple of minutes have to be spent when greeting each other for the interlocutors have to exchange to each other about the health of their family members and neighbors (though this practice is becoming less popular in towns and cities). However, you have to greet everyone you meet, regardless of your knowledge about them.

Therefore, whether you are in hurry or not, you will have to stop and greet people. The argument given for this is that these people that you meet can help you when you encounter any difficulty.

My second cultural shock was food habits. The differences in the kind of dishes between Tanzania and America didn't highly shock me since the latter is rich in different food varieties. What seemed different is the practice of eating while walking. In Tanzania, eating while walking is regarded as disrespecting the food and that food should be respected since it makes one live. In classrooms, not only is it completely not allowed to eat, but also to bring food or even cookies/candy. So if a student brought candy happens to not eat it by the time lessons are in progress, and continues to eat, punishment will follow, which can include suspension from the school for a couple of weeks.

I was shocked when I first entered both the classes I teach and those I take; students had food, cookies, bottles of water and juice and they could eat comfortably when the class is in progress. Even though someone had told me about this before, I guess you would agree with this Swahili saying that, "Mazoea yana taabu," which means that if you are used to something, it is a problem since it may affect your outlook upon other new things. I therefore kept asking myself, "Why is it so?" Is it that people don't have time to sit down and eat? Now I think that perchance people are busy and don't have time to waste may underlie the reason for this aspect.

I don't want to conclude this article, since it is still in progress. I therefore would like to invite you to join me next week for the next part of this article.

Minds at Mines Halloween

Roby Brost
Staff Writer

Orange, red, yellow. When the leaves begin to turn, a thrill of excitement laces the autumn air. Memories of Halloween, of jack-o-lanterns with leery grins, meticulously crafted costumes covered up with coats, white knuckled fists gripping pillow cases, or spooky hallways with too many doors now trail behind thoughts of exams and class the next morning. While fewer students at Mines seek goodies from door to door and only a few jack-o-lanterns adorn dorm room entryways, many amongst the Mines community still find their own ways to celebrate this spooky holiday.

"Nightmare on Greek Street! It's

really cool. We decorate the fraternity house as a haunted house and have candy for the young trick-or-treaters. Its not really spooky, but there are smoke machines and the smaller trick-or-treaters get spooked. The IFC sets it up, you know, buying the candy and providing hot chocolate for the parents and stuff. The sorority girls volunteer to take the kiddies through, but there is also a haunted house for the high school kids. We're careful with the littler kids, but we do try to give the high school students a good scare."

Ryan Merrion, Joey Cohrs and Davis Bagley



"My plans are in the school's fight song... look it up!"
Emil Marinov



"I'm working this Halloween (as usual), but I always dress up for Halloween. I think the trick-or-treaters enjoy it. This year I will be a crazy, mad scientist... fitting..."
Josh Hansen

"I don't have any plans yet, but there is a group of us who are looking for a costume party. We're not sure yet, but we might go as a group theme... Tetris!"
Krista Nixon



"I don't really have any specific Halloween plans... but they will probably involve stripping down. Getting drunk and rowdy at a party."
Kyle Bell



"This Halloween I will be down in New Mexico to play an ultimate Frisbee tournament."
Tony Hopp



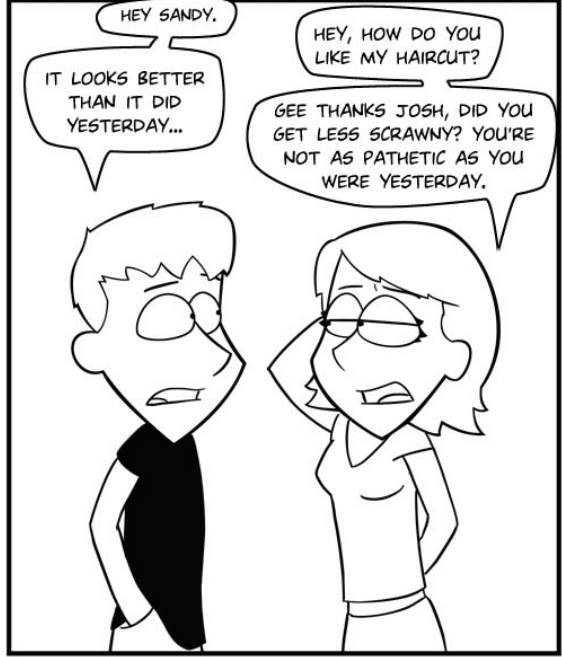
"Candy, candy, yeah!"
Melissa Stegner

Fool's Gold

“Trick or trick!”



STANDARD DEVIATION BY KYLE SANDERS



STANDARD DEVIATION BY KYLE SANDERS



Ghouls sighted

Janeen Neri
Spook Artist

An email sent yesterday morning warned Mines students to “watch out” for ghouls. According to Public Safety, the beings were sighted in the freshman parking lot, the Slate Café and several lecture halls. “They have pasty faces and hunched backs covered with large, zipper-like scars,” the email warned, “If you encounter a ghou, please back away slowly and notify Public Safety as soon as you can safely do so.” Patrick J. Boo, who works for Public Safety, was concerned but not too surprised. “These fellows pop up every year around midterms and finals,” he explained, “It’s just a matter of letting the incoming freshman class know they’re there... we tend to lose a lot of the freshmen to them.” Boo asked freshmen

to “not walk alone, if possible. Join a club so you’re with other people in the evening. And for heaven’s sakes, don’t work on homework with your door closed! They **will** sneak in the window if they know they can’t get caught.” Aside from their taste for overstudious students, the ghouls are harmless. “The majority of our calls at this time of the year come because they steal stuff: homework, socks in the washing machine, forks from Slate [Café]... a whole lot of forks, actually – guess they’re hungry this year,” Boo said, laughing, “Again, just be aware of your surroundings and personal objects, and you should be fine.” For more information about ghouls and how to live with the undead life that exists in the Golden area, see http://www.mines.edu/all_about/safety/forms/UndeadLife.pdf.

Senior design project under fire

Students fear for their grades and lives

Benjamin M. Weilert
Former Senior Designer

Each fall, students who have passed enough credits to become seniors begin a harrowing ordeal known as Senior Design. This course is designed to get students ready for the real world by exposing them to endless amounts of red tape and trivial bureaucratic problems. The Senior Design program is advantageous to the school, professors and companies who need some free slave labor. Projects range from basic maintenance of school grounds to advanced, graduate level robotic systems. One team of note has been having major problems with their project. This team picked up a task that involves the unifying of all the school's functions underneath a single system known only as 10-YKS. Utilizing the school's supercomputer, Ra, the system would be able to run the entire school without any human interactions.

However, the team has recently come under fire from professors and other interested individuals. “We were having a team meeting in the library when this one burly guy who couldn’t act came up and started shooting at us,” recalled project member, Miles Dyson, “Now I don’t think we can get the project proposal in on time.” The team has been threatened by their client, Cyberdyne Systems, that if the team doesn’t complete the project, they will have CSM hold back the team’s diplomas. Dyson, the project leader, also worries about being able to tell friend from foe, “There have been a lot of people who want to help with our project, but there has also been an equal amount of people shooting at us. Our only hope is that most of the people who are out to get us have no emotions or human kindness; unfortunately, this includes most

of the professors who control our grades.” The team has hired a squad of bodyguards to help them get through the year. These bodyguards claim to be from the future where they are battling killer robots in order to save humanity from extinction. “I think that’s why we hired them,” said Miles Dyson, “It’s always nice to have people protecting you who have a sense of humor. Too bad they can’t act either.” Despite being an incredibly daunting project, the team thinks that they’ll be able to get a good chunk of it done by the end of the Senior Design program. Even with the fact that most of his team are dead and the remaining members are behind schedule, Dyson is optimistic, “Hopefully, we’ll get enough done that a team can pick it up next year and finish it. I just hope that Cyberdyne Systems understands that a task like 10-YKS is a little ambitious for a year-long project and will still let us graduate.”



10-YKS. Bringing it all together for an apocalyptic future. BENJAMIN M. WEILERT / OREDIGGER

solution

5	8	9	6	3	7	4	2	1
7	3	2	1	8	4	5	9	6
4	6	1	9	5	2	3	8	7
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3	9	7	4	6	5	8	1	2
6	5	8	2	7	1	9	4	3
9	7	6	3	1	8	2	5	4
8	2	3	5	4	6	1	7	9
1	4	5	7	2	9	6	3	8

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Club sports director refuses to let club use school insurance

Team organizes weekend tournament with no help

Peter Peter Pumpkin Eater
Truth Teller

The Club Men's Lacrosse Team just finished up their fall season this last weekend by hosting the "Golden Fall Brawl." Teams from across the RMLC were invited and traveled to Golden for a double-elimination tournament from as far as Montana, Wyoming and Durango, Colorado. The tournament went off as a great success due solely to the efforts of the team presidency and not a single ounce of energy from the Club Sports Staff.

"As far as I'm concerned, this isn't even a school sanctioned event and I'm not giving you guys anything," said Joan Skankward, Club Sports Director, to team member Steve Tire. Joan was right. The men's team had been planning and advertising this event for more than a month when Skankward announced one week beforehand that the IM fields would not be available for use since it would "trample the grass."

In the Club Sports Handbook, (the governing literature on procedural and bylaw operations for the Club Sports Council), "Hosting Team Tournaments" is mentioned 14 times. Not once, not twice, but *fourteen* Mother-Loving times, it suggests that a club in "good standing" should host tournaments. One of the guidelines to win "Club Sport of the Year" even suggests holding tournaments. But why could the team not do it?

Skankward had cited three tournaments in past years that were also denied approval for the "benefit of the condition of the fields." Despite this, just because something has been done before, it isn't an accurate precedent. It merely shows incompetence on a recurring manner. "We put tens of thousands of dollars into those IM fields every year," retorted Skankward. If seeding them once in the fall and drowning them with water in February is worth that much, then the School of Mines needs a new landscaper.

Looking for help originally, the

Men's Team was to be charged over \$700 by the School to host the tournament, including painting their own fields for \$265.00. These fees, which are normally covered for all club sports, were going to be waived because the "Mines Team wouldn't be playing in every game." Despite the fact that the tournament was a fundraiser, the club sports department felt it unnecessary to spend frivolous money on the student clubs it runs. I mean, they're just kids right? Screw 'em. They can't even tell the school about it by writing a factual article in the paper...

After Skankward announced there would be no fields, she gave a "go ahead and do it yourself" attitude and the team presidency did. This, however, did not stop Skankward from sending out an e-mail to the league announcing how the tournament was cancelled (after she was told not to). Due to that e-mail, University of Northern Colorado dropped out at the last minute, costing the Men's team even more money.

The team presidency pulled

together and pulled off one of the best fundraisers and tournaments in years. Obtaining fields (with no insurance coverage due to Skankward's refusal), buying field paint, painting the fields, making brackets, advertising to high schools, getting sponsors for food and balls, buying concessions, making tournament T-shirts, transporting the goals to location, setting up and breaking down, buying scoreboards, hiring referees, hiring athletic trainers, hiring women's lacrosse team volunteers to run the tables and actually playing in the games they were *supposed to be concentrating on* the whole time, are just a number of the many

spectacular ways that the men's lacrosse team came through in the clutch. I mean, what are we paying Skankward for, again? She's got an intern. What could she be doing with her time?

I congratulate the team on its cumulative effort of over 125 hours of work and not getting paid to do it. When the Club Sports Department refused to help in anyway, the team simply rose above the petty politics and Director's malcontent. "Just come to us and we can help you," are the famous last words a club hears that listens to the words of the Club Sports Director.



COURTESY OF PETER EATER

Women's lacrosse date auction to sell men

Not a problem for male-dominated campus

Mike Stone
Male Volunteer

The women's club lacrosse team has a Date Auction planned for this Wednesday, October 29 at 7 PM to raise money for the Spring. Like the women's soccer team last year, it's expected to "cause a ruckus" for campus men and raise quite a few dollars. How it differs from last year's auction is a little more controversial.

The women's team will be auctioning off members of their team as well as male volunteers dressed as women. "There just aren't enough women on campus to auction for a profit," said coach Matt Nobles. "If you auctioned off all the women on campus for \$300 a piece, you'd raise approximately

\$600. This just isn't enough to run a team."

Men on campus are expected to pay even higher amounts for the male counterparts. "After you're done making out with them, they're just like another one of your drinking buddies," said junior David Stuart. The male auction-ies will bring in an estimated \$4,000 a piece for the women's lacrosse

team.

After the auction, dates will take place Saturday, November 1 at local restaurants in groups of four or six. After that, bowling or other "surprise" activities will take place at the cost of the team. Once the date is paid for, its paid for. Details on how repulsive the "prison-dressed-style" men will look are still to follow.



Women's Lacrosse. Visual representation of male auction-ies.

MIKE STONE / OREDIGGER

— sudoku —

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						9	2	
6	1	7						8
		9			5			

Puzzle by websudoku.com

Fool's Gold Top Ten

Top 10 Mines Halloween costumes

- 10) Integral Sign
- 9) Women's Lacrosse Player
- 8) Non-Nerd
- 7) Alf
- 6) Stewie Griffin
- 5) Butters as a Chinese Infiltrator
- 4) Einstein
- 3) A Beautiful Woman
- 2) Gandalf
- 1) An 18 year old NON-virgin

-Mike Stone